

AMENDMENTS TO THE DRAWINGS

The attached "Replacement Sheets" of drawings include changes to Figures 1, 2, and 4. The attached "Replacement Sheets," which include Figures 1, 2, and 4, replace the original sheets including Figures 1, 2, and 4.

Attachment: Replacement Sheets

REMARKS

Claims 1 - 4 are now pending in the application. The Examiner is respectfully requested to reconsider and withdraw the rejections in view of the amendments and remarks contained herein.

SPECIFICATION

The specification has been amended to correct inaccuracies therein. Specifically, the specification has been amended to clarify that a Y'' axis is achieved when the Z and Y' axes are rotated about the X' axis. This is shown, for example, in Figure 1. Accordingly, paragraphs in the specification have been amended to clarify that the rotation is about the Y'' axis to form the X'' and Z'' axes, and not the Y' axis. Favorable consideration of these amendments is respectfully requested.

DRAWINGS

Figure 1 has been amended to clarify that a Y'' axis is formed when rotating the Z axis about the X' axis. Further, Figures 2 and 4 have been amended to clarify that X'' and Z'' axes are formed when rotating about the Y'' axis, and not the Y' axis. Favorable consideration of these amendments is respectfully requested.

REJECTION UNDER 35 U.S.C. § 112

Claims 1 - 4 stand rejected under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point and distinctly claim the subject matter which Applicant regards as the invention. This rejection is respectfully traversed.

The examiner alleges that Claims 1 - 4 are indefinite because various terms lack an antecedent basis, and the examiner believes that the Y family axes should be clearly recited in the claim. Notwithstanding, Claim 1 has been amended to recite a cut of piezoelectric resonator comprising a quartz plate having an electric axis on an X axis, a mechanical axis on a Y axis, and an optic axis on a Z axis. The plate has sides parallel to an X' axis established by rotating the X axis and Y axis in a clockwise direction about the Z axis within an angle from about 3° to 30° to form the X' and Y' axes. The quartz plate further has a side parallel to a Z' axis obtained by rotating the Z axis and Y' prime axis about the X' axis in a clockwise direction within an angle from about 33 to 36 degrees to form the Z' and Y'' axes. Lastly, Claim 1 recites that the quartz plate has sides parallel to an X'' axis and a Z'' axis, respectively, which have been rotated within angles of from about -35 to -2 degrees in the clockwise direction about the Y'' axis that is a thickness direction of the of the piezoelectric resonator. By this amendment, Applicant respectfully asserts that Claims 1 – 4 now conform with 35 U.S.C. § 112, second paragraph.

Accordingly, reconsideration and withdrawal of this rejection is respectfully requested.

CONCLUSION

It is believed that all of the stated grounds of rejection have been properly traversed, accommodated, or rendered moot. Applicant therefore respectfully requests that the Examiner reconsider and withdraw all presently outstanding rejections. It is believed that a full and complete response has been made to the outstanding Office

Action and the present application is in condition for allowance. Thus, prompt and favorable consideration of this amendment is respectfully requested. If the Examiner believes that personal communication will expedite prosecution of this application, the Examiner is invited to telephone the undersigned at (248) 641-1600.

Respectfully submitted,

Dated: _____

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By: _____

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